

**SCORE Search Results Details for Application 10529592 and Search Result 20090516\_085922\_us-10-529-592a-1.rnpbn.**

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OM nucleic - nucleic search, using sw model

Run on: May 19, 2009, 21:10:26 ; Search time 256 Seconds  
(without alignments)  
3826.801 Million cell updates/sec

Title: US-10-529-592A-1  
Perfect score: 881  
Sequence: 1 gggccatgacccccgctgct.....aaataaagatcctctgtaac 881

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 1339906 seqs, 555993767 residues

Total number of hits satisfying chosen parameters: 2679812

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published\_Applications\_NA\_New:\*  
1: /ABSS/Data/CRF/ptodata/1/pubpna/US09\_NEW\_PUB.seq:\*  
2: /ABSS/Data/CRF/ptodata/1/pubpna/US10\_NEW\_PUB.seq:\*  
3: /ABSS/Data/CRF/ptodata/1/pubpna/US11\_NEW\_PUB.seq:\*  
4: /ABSS/Data/CRF/ptodata/1/pubpna/US12\_NEW\_PUB.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

%

Result	Query						Description
	No.	Score	Match	Length	DB	ID	
c	1	45.6	5.2	839	2	US-10-425-115-144491	Sequence 144491,
	2	44	5.0	975	4	US-12-169-527-2483	Sequence 2483, Ap
	3	43.8	5.0	363	2	US-10-425-115-139685	Sequence 139685,
	4	42.8	4.9	667	1	US-09-684-016-184927	Sequence 184927,
	5	42.6	4.8	1857	4	US-12-169-527-5220	Sequence 5220, Ap
	6	42.4	4.8	576	2	US-10-425-115-176269	Sequence 176269,
	7	42.2	4.8	1230	4	US-12-286-964-7163	Sequence 7163, Ap
c	8	41.8	4.7	932	4	US-12-169-527-5307	Sequence 5307, Ap
	9	41.4	4.7	1016	2	US-10-425-115-76543	Sequence 76543, A
c	10	41.4	4.7	9314	4	US-12-156-531-13	Sequence 13, Appl
	11	41.2	4.7	1399	4	US-12-064-797A-8050	Sequence 8050, Ap
c	12	40.8	4.6	672	4	US-12-286-964-15136	Sequence 15136, A
c	13	40.6	4.6	471	1	US-09-684-016-453428	Sequence 453428,
c	14	40.6	4.6	663	2	US-10-425-115-98904	Sequence 98904, A
	15	40.4	4.6	373	3	US-11-974-469A-4265	Sequence 4265, Ap
	16	40.4	4.6	445	1	US-09-684-016-455702	Sequence 455702,
	17	40.4	4.6	933	4	US-12-286-964-4279	Sequence 4279, Ap
	18	40.4	4.6	1340	2	US-10-425-115-17070	Sequence 17070, A
	19	40.4	4.6	1768	2	US-10-425-115-111649	Sequence 111649,
	20	40.4	4.6	6262	4	US-12-116-815-556	Sequence 556, App
	21	40.4	4.6	6276	3	US-11-991-351-75	Sequence 75, Appl
	22	40.2	4.6	428	1	US-09-684-016-172490	Sequence 172490,
	23	40.2	4.6	3000	4	US-12-286-964-21616	Sequence 21616, A
c	24	40	4.5	376	1	US-09-684-016-283041	Sequence 283041,
	25	40	4.5	508	1	US-09-684-016-259492	Sequence 259492,
c	26	40	4.5	865	2	US-10-425-115-179331	Sequence 179331,
	27	40	4.5	889	1	US-09-684-016-263475	Sequence 263475,
c	28	40	4.5	1194	3	US-11-988-790-15	Sequence 15, Appl
c	29	39.8	4.5	521	1	US-09-684-016-186132	Sequence 186132,
	30	39.8	4.5	590	2	US-10-425-115-11173	Sequence 11173, A
	31	39.8	4.5	1694	3	US-11-980-276A-2536	Sequence 2536, Ap
	32	39.8	4.5	2486	2	US-10-425-115-131502	Sequence 131502,
c	33	39.6	4.5	358	1	US-09-684-016-334885	Sequence 334885,
	34	39.6	4.5	594	2	US-10-425-115-133507	Sequence 133507,
c	35	39.6	4.5	3324	3	US-11-911-617-161	Sequence 161, App
c	36	39.4	4.5	454	2	US-10-425-115-134112	Sequence 134112,
c	37	39.4	4.5	496	1	US-09-684-016-394236	Sequence 394236,
	38	39.2	4.4	451	1	US-09-684-016-184373	Sequence 184373,
	39	39.2	4.4	463	2	US-10-425-115-118884	Sequence 118884,
	40	39.2	4.4	1800	2	US-10-425-115-138850	Sequence 138850,
	41	39.2	4.4	2366	2	US-10-425-115-138853	Sequence 138853,
	42	39	4.4	374	1	US-09-684-016-460569	Sequence 460569,
	43	39	4.4	411	1	US-09-684-016-405405	Sequence 405405,
c	44	39	4.4	438	1	US-09-684-016-437981	Sequence 437981,
	45	39	4.4	1335	2	US-10-425-115-18329	Sequence 18329, A

## ALIGNMENTS

# RESULT 1

US-10-425-115-144491/c  
 ; Sequence 144491, Application US/10425115  
 ; Publication No. US20090087878A9  
 ; GENERAL INFORMATION:  
 ; APPLICANT: La Rosa, Thomas J.  
 ; APPLICANT: Kovalic, David K.  
 ; APPLICANT: Zhou, Yihua  
 ; APPLICANT: Cao, Yongwei  
 ; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
 ; TITLE OF INVENTION: Plants  
 ; FILE REFERENCE: 38-21(53222)B  
 ; CURRENT APPLICATION NUMBER: US/10/425,115  
 ; CURRENT FILING DATE: 2003-04-28  
 ; NUMBER OF SEQ ID NOS: 369326  
 ; SEQ ID NO 144491  
 ; LENGTH: 839  
 ; TYPE: DNA  
 ; ORGANISM: Zea mays  
 ; FEATURE:  
 ; OTHER INFORMATION: Clone ID: MRT4577\_6325C.1  
 US-10-425-115-144491

Query Match 5.2%; Score 45.6; DB 2; Length 839;  
 Best Local Similarity 50.5%; Pred. No. 0.056;  
 Matches 111; Conservative 0; Mismatches 109; Indels 0; Gaps 0;

Qy	40	CCGCGGCCCCCGAGCCCGACCGCCGCCACCACCAGCGCCGGGCGGCCCTCGC	99
Db	248	CGCGCAGCGCCGGAAGCTGCACGTGGCCGCAGCCGCTGAGGCGGGTGCCGCCGGA	189
Qy	100	GCGCCTCGGGCGCGGCTCCGCGAGTGAGCCACCAAGAAGGAGCGGCTGCAGAGGTGCC	159
Db	188	GCTCCAGCTGATGAGCCACCAATGTCGTCGACAAGCAGATCCCTGCTCGGACAGGTGTC	129
Qy	160	GACATGGGGCTTAAGATGTCCTGCCTGAAAGGCTTTCAAATGTGTGTCAGCAGCAGCAGC	219
Db	128	GTGATCACCATCCTCGGCGGTGGCCTGCACGACAGTCGCGCTGTCGGTGGCAGCAGCAGG	69
Qy	220	AGCAGCCACGACGAGGCCCCGCTCCTGAACGACAAGCACC	259
Db	68	AGCTGCAACGACGACGCGCCGCACCGTGACCTTGCTGGACC	29

# RESULT 2

US-12-169-527-2483  
 ; Sequence 2483, Application US/12169527  
 ; Publication No. US20090049566A1  
 ; GENERAL INFORMATION  
 ; APPLICANT: Mendel Biotechnology, Inc.  
 ; APPLICANT: ZHANG, James  
 ; APPLICANT: HEMPEL, Frederick D  
 ; APPLICANT: ADAM, Luc

```

; APPLICANT:PALYS, Joseph M
; TITLE OF INVENTION: IMPROVEMENT OF PLANT QUALITY WITH VARIOUS PROMOTERS
; FILE REFERENCE: MBI-0070-2CIP
; CURRENT APPLICATION NUMBER: US/12/169,527
; CURRENT FILING DATE: 2008-07-08
; NUMBER OF SEQ ID NOS: 10667
; SOFTWARE: PatentIn version 3.5
; SEQ ID NO 2483
; LENGTH: 975
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: G4640, family:MYB-(R1)R2R3
US-12-169-527-2483

```

Query Match 5.0%; Score 44; DB 4; Length 975;  
 Best Local Similarity 47.9%; Pred. No. 0.14;  
 Matches 158; Conservative 0; Mismatches 170; Indels 2; Gaps 1;

```

Qy      13  CCGCTGCTCTGTCTTGCAGGCTCGTCGCCGCGGCCCGCCGAGCCCGACCGCCGCGCCAC 72
      ||| || | | | | | | | | | | | | | | | | | | | | | |
Db      540  CCGCGGCATCGACCCGCGAGCGCACCGCCCGCTCAGCGGCGCGCGGGCAGCGCGCTCAC 599

Qy      73  CACCACCAGCGCCCGGGCGGGCCCTCGCGCGCCTCGGGCGCGGCTCCGCAGTGAGCCACC 132
      ||||| | | | | | | | | | | | | | | | | | | | |
Db      600  CACCACGTCCAGCACCGCCGGCTTCCCGTCCCCGCGCGCGCTCCAGGTCCAGGCCAC 659

Qy      133 AAGAAGGAAGCGGCCTGCAGAGGTGCCGACATGGGGCTTAAGATGTCTGCCTGAAAGGC 192
      | | | | | | | | | | | | | | | | | | | | | |
Db      660  GCCACGCCCCCGCC--CACCCTCGTCGTCCCGCCCAATGCGATCTCTCGTGCGCCCGCG 717

Qy      193 TTTCAAATGTGTGTGTCAGCAGCAGCAGCAGCAGCCACGACGAGGCCCGCCGCTCTGAACGAC 252
      | | | | | | | | | | | | | | | | | | | | | |
Db      718  CCGTCGGAGGACGGCCACAGCAGCAGCGCGCGGAGCAGGACGCGCGCGCTGCCCCGAC 777

Qy      253 AAGCACCTGGACGTGCCGACATCATCATACGCCCCCACCACCGGGCATGATGCTG 312
      ||||| | | | | | | | | | | | | | | | | | | |
Db      778  CTCAACCTGGACCTGTCCGTGGGCGCGCCCAAGACGCCGCGGCCACGCGAG 837

Qy      313 CCGAGGGACTTGGGGAGCACAGTCTGGCTG 342
      | | | | | | | | | | | | | | | | | |
Db      838  CAGCAGCGGCGGCGGACGACCATCTGCCTG 867

```

RESULT 3  
 US-10-425-115-139685  
 ; Sequence 139685, Application US/10425115  
 ; Publication No. US20090087878A9  
 ; GENERAL INFORMATION:  
 ; APPLICANT: La Rosa, Thomas J.  
 ; APPLICANT: Kovalic, David K.  
 ; APPLICANT: Zhou, Yihua  
 ; APPLICANT: Cao, Yongwei

```

; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 139685
; LENGTH: 363
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_5887C.1
US-10-425-115-139685

```

```

Query Match          5.0%; Score 43.8; DB 2; Length 363;
Best Local Similarity 45.9%; Pred. No. 0.15;
Matches 150; Conservative 0; Mismatches 177; Indels 0; Gaps 0;

```

```

Qy      10  CCCCCTGCTCTGTCTTTCAGGCTCGTCGCCGCGGCCCCCAGCCCCAGCCGCGCCGC 69
      || || | | | | | | | | | | | | | | | | | | | |
Db      37  CCTCCTCCTCCTCCTCCTCCAGATCCGCTCCCCGCCCGCCCCAGATCCCCACGCA 96

Qy      70  CACCACCACAGCGCCCGGGCGGGCTCGCGCGCCTCGGGCGCGGGCTCCGAGTGAGCCC 129
      | | | | | | | | | | | | | | | | | | | |
Db      97  GCGAGCGAAGCGCGCGCGCGCAGGCCAGATCCGCCCGCGCCCCGCGGAGCAGCCA 156

Qy     130  ACCAAGAAGGAAGCGGCCTGCAGAGGTGCCGACATGGGGCTTAAGATGTCTGCCTGAAA 189
      | | | | | | | | | | | | | | | | | | | |
Db     157  TCCATGGCGAAGGAGGCCGCGCGCGAGGGGGCCATGTGCGAGCCGGTGCTGCGCAAGGAG 216

Qy     190  GGCTTTCAAATGTGTGTGTCAGCAGCAGCAGCAGCCACGACGAGGCCCGCTCCTGAAC 249
      | | | | | | | | | | | | | | | | | | | |
Db     217  CTCGTCTCCTACTGTCTACGTGCGGAGTGGATCTTCTCTCCTTCACCGTCATCGTCTAC 276

Qy     250  GACAAGCACCTGGACGTGCCGACATCATCATACGCCCCCACCACCGGGCATGATG 309
      | | | | | | | | | | | | | | | | | | | |
Db     277  AACAAAGTACATCCTCGACCCCAAGATGTACAACTGCCCTTCCCCATCTCGCTCACCATG 336

Qy     310  CTGCCGAGGGACTTGGGGAGCAGTC 336
      | | | | | | | | | | | | | |
Db     337  GTGCACATGGCCTTCTGTCTCTCCCTC 363

```

## RESULT 4

US-09-684-016-184927

```

; Sequence 184927, Application US/09684016
; Publication No. US20090093620A1
; GENERAL INFORMATION:
; APPLICANT: Kovalic, David K.
; APPLICANT: Liu, Jingdong
; TITLE OF INVENTION: Annotated Plant Genes
; FILE REFERENCE: 38-21(15097)D
; CURRENT APPLICATION NUMBER: US/09/684,016

```

```

; CURRENT FILING DATE: 2000-10-10
; PRIOR APPLICATION NUMBER: US 09/654,617
; PRIOR FILING DATE: 2000-09-05
; NUMBER OF SEQ ID NOS: 463173
; SEQ ID NO 184927
; LENGTH: 667
; TYPE: DNA
; ORGANISM: Arabidopsis thaliana columbia
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(667)
; OTHER INFORMATION: unsure at all n locations
US-09-684-016-184927

```

```

Query Match          4.9%; Score 42.8; DB 1; Length 667;
Best Local Similarity 60.2%; Pred. No. 0.27;
Matches 71; Conservative 0; Mismatches 47; Indels 0; Gaps 0;

```

```

Qy      3  GCCATGACCCCCGCTGCTCTGTCTTGACAGGCTCGTCGCCGCGGCCCCCGAGCCCGACCG 62
        ||| ||| ||| ||| | | ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      450  GCCCCCGCCACGCGCGCACCCCCCGCGCGGCCCGCGCGCGGCCCGCCCCCCCCCACCC 509

Qy      63  CCGCGCGCACCAACCACGAGCGCCCGGGCGGGCCTCGCGCGCCTCGGCGCGGGCTCCGC 120
        || ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      510  CCTCCCCCCCCCCCCCGCCCCCCCCCCCCCCCCCGCCCCCCCCCGCCCCCCCCCCCC 567

```

## RESULT 5

US-12-169-527-5220

```

; Sequence 5220, Application US/12169527
; Publication No. US20090049566A1
; GENERAL INFORMATION
; APPLICANT: Mendel Biotechnology, Inc.
; APPLICANT:ZHANG, James
; APPLICANT:HEMPEL, Frederick D
; APPLICANT:ADAM, Luc
; APPLICANT:PALYS, Joseph M
; TITLE OF INVENTION: IMPROVEMENT OF PLANT QUALITY WITH VARIOUS PROMOTERS
; FILE REFERENCE: MBI-0070-2CIP
; CURRENT APPLICATION NUMBER: US/12/169,527
; CURRENT FILING DATE: 2008-07-08
; NUMBER OF SEQ ID NOS: 10667
; SOFTWARE: PatentIn version 3.5
; SEQ ID NO 5220
; LENGTH: 1857
; TYPE: DNA
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Predicted polypeptide sequence is orthologous to G274
US-12-169-527-5220

```

```

Query Match          4.8%; Score 42.6; DB 4; Length 1857;
Best Local Similarity 47.5%; Pred. No. 0.31;

```

Matches 126; Conservative 0; Mismatches 139; Indels 0; Gaps 0;

Qy	39	GCCGCGCCCCCGAGCCCGACCGCGCCGCCACCAACCAGCGCCCCGGCGGGCCTCG	98
Db	357	GCACTGCCCCCCCGCCGCGGAGCGGCGGCGGTGCCTCGTCCCGCGCCGCGGGGCTACCG	416
Qy	99	CGCGCCTCGGGCGCGGCTCCGCAGTGAGCCCCACCAAGAAGGAAGCGGCCTGCAGAGGTGC	158
Db	417	CGCGCCGCTCCGTTGGCGCGGAGCGCCGACGCGGCGTGGTACGCGAACGCGCCGCACGA	476
Qy	159	CGACATGGGGCTTAAGATGTCCTGCCTGAAAGGCTTTCAAATGTGTGTGAGCAGCAGCAG	218
Db	477	GGAGCTGGTGACGGAGAAGGGCGTGACAGAACTGGATCAGGCGGGACGGCGACGTGCTCCG	536
Qy	219	CAGCAGCCACGACGAGGCCCCCGTCTGAACGACAAGCACCTGGACGTGCCCGACATCAT	278
Db	537	CTTCCCCGGCGGGGGACCATGTTCCCGCACGGCGCGGACCGGTACATCGACGACATCGC	596
Qy	279	CATCACGCCCCCACCCCCACGGGC	303
Db	597	CGCGGCGGCGGGCATCAGCTGGGC	621

## RESULT 6

US-10-425-115-176269

; Sequence 176269, Application US/10425115

; Publication No. US20090087878A9

## ; GENERAL INFORMATION:

; APPLICANT: La Rosa, Thomas J.

; APPLICANT: Kovalic, David K.

; APPLICANT: Zhou, Yihua

; APPLICANT: Cao, Yongwei

; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With

; TITLE OF INVENTION: Plants

FILE REFERENCE: 38-21 (53222) B

; CURRENT APPLICATION NUMBER: US/10/425,115

; CURRENT FILING DATE: 2003-04-28

; NUMBER OF SEQ ID NOS: 369326

; SEQ ID NO 176269

; LENGTH: 576

; TYPE: DNA

; ORGANISM: Zea mays

; FEATURE:

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; NAME/KEY: unsure
```

; LOCATION: (1)..(576)

; OTHER INFORMATION: unsure at all n locations

; FEATURE:

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; OTHER INFORMATION: Clone ID: MRT4577_92350C.1
```

US-10-425-115-176269

Query Match 4.8%; Score 42.4; DB 2; Length 576;

Best Local Similarity 46.5%; Pred. No. 0.34;

Matches 133; Conservative 0; Mismatches 153; Indels 0; Gaps 0;

```

Qy      32  GCTCGTCGCCGCGGCCCGCCGAGCCCGACCGCGCGCCACCACCACGCGCCCGGGCG 91
      | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      189 GCTCGCCTGCGCGGAGCCCAACCTCAACCTGCCCTGCCCGCTGCCCGCGGTCCCGGGCG 248

Qy      92  GGCCTCGCGCGCCTCGGGCGCGGCTCCGCGAGTGAGCCCAAGAAAGGAAGCGGCCTGCA 151
      | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      249 GGCCGCGCTGCGCGGTGCGGCCGCGGGTTGCCCGCGCGCGCGAGTACCACCGCCGCG 308

Qy     152  GAGGTGCCGACATGGGGCTTAAGATGTCCTGCCTGAAAGGCTTTCAAATGTGTGCAGCA 211
      | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db     309 CCAGATCTGAGGTGGCCTTTCGCTTCTCGGACGACCTGGCCGCGCGGTGGGCGGCGGCT 368

Qy     212  GCAGCAGCAGCAGCCACGACGAGGCCCCCGTCTGAACGACAAGCACTGGACGTGCCCCG 271
      | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db     369 TCGACGAGATCGGCTCCGAGGACGACCTCTTCTCCACCTTCATGGACATGGACAAGATCG 428

Qy     272  ACATCATCATCACGCCCCCACCCCCACGGGCATGATGTCGCCGAG 317
      | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db     429 CCGCGCGCGACCGCGACCGTACCGNCGAGACCTCCTCGCGNCGCG 474
  
```

# RESULT 7

US-12-286-964-7163

; Sequence 7163, Application US/12286964

; Publication No. US20090094717A1

## ; GENERAL INFORMATION

; APPLICANT: Maxim Troukhan

; APPLICANT: Peter Mascia

; TITLE OF INVENTION: NUCLEOTIDE SEQUENCES AND CORRESPONDING POLYPEPTIDES CONFERRING

; TITLE OF INVENTION: MODULATED PLANT CHARACTERISTICS

; FILE REFERENCE: 2750-1716PUS2

; CURRENT APPLICATION NUMBER: US/12/286,964

; CURRENT FILING DATE: 2008-12-01

; PRIOR FILING DATE:

; PRIOR APPLICATION NUMBER: 60/997,507

; PRIOR FILING DATE: 2007-10-03

; NUMBER OF SEQ ID NOS: 21783

; SEQ ID NO 7163

; LENGTH: 1230

; TYPE: DNA

; ORGANISM: Sorghum bicolor

; FEATURE:

; NAME/KEY: misc\_feature

; OTHER INFORMATION: Ceres ANNOT ID no. 6074749

; FEATURE:

; NAME/KEY: misc\_feature

; OTHER INFORMATION: Encodes the peptide sequence at SEQ ID NO 7164

US-12-286-964-7163

Query Match 4.8%; Score 42.2; DB 4; Length 1230;

Best Local Similarity 54.1%; Pred. No. 0.39;

Matches 86; Conservative 0; Mismatches 73; Indels 0; Gaps 0;



[http://es.ScoreAccessWeb/GetItem.action?AppId=1052959...\\_085922\\_us-10-529-592a-1.rnpbn&ItemType=4&startByte=0](http://es.ScoreAccessWeb/GetItem.action?AppId=1052959..._085922_us-10-529-592a-1.rnpbn&ItemType=4&startByte=0) (9 of 16) 5/25/2009 7:10:00 PM

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Qy      393 AGGAGGTGTCCTGGGTTTGGCTGGCTGGCTCCTGCTCCAGCGGCCCGGCTTCAGGTGTCC 452
      || | | | | | | | | | | | | | | | | | | | | | |
Db      380 AGCACCCGTGCACCTTGGGCTTGGCCGGCGCCTCGGCGGCCCGGGTCGCCGTCCGCCAGGC 321

Qy      453 GGGGGCGTGGCTGCCTGGAGCAGGTGTGCTGAATACCTGGATGG 497
      || | | | | | | | | | | | | | | | | | | | |
Db      320 GGGGCTTCTTGTGGCTGGCCCGGTGGCCGCCGAGCGCCTGGAAGG 276
  
```

# RESULT 9

```

US-10-425-115-76543
; Sequence 76543, Application US/10425115
; Publication No. US20090087878A9
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 76543
; LENGTH: 1016
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_169834C.1
US-10-425-115-76543
  
```

```

Query Match          4.7%; Score 41.4; DB 2; Length 1016;
Best Local Similarity 45.7%; Pred. No. 0.61;
Matches 144; Conservative 0; Mismatches 171; Indels 0; Gaps 0;
  
```

```

Qy      34 TCGTCGCGCGGCCCGCCCGAGCCCGACCGCCGCCACCACCAGCGCCCGGGCGGG 93
      || | | | | | | | | | | | | | | | | | | | |
Db      137 TCCACCACCCTCTCCTCGGCCTTCACCCCTCCTCTCCGCCCTCCACCTCCCGTGCCCC 196

Qy      94 CCTCGCGCGCCTCGGGCGCGGCTCCGCAGTGAGCCCCACCAAGAAGGAAGCGGCCTGCAGA 153
      | | | | | | | | | | | | | | | | | | | |
Db      197 GCCGCCTCGCTCCCGAGGTCTCCACGCGCGGCCCCACATCCGCCGGGGCCGCCGCCGCC 256

Qy      154 GGTGCCGACATGGGGCTTAAGATGTCCTGCCTGAAAGGCTTTCAAATGTGTGTCAGCAGC 213
      | | | | | | | | | | | | | | | | | | | |
Db      257 GTCGCCCTCGCGTGCACCGCCACCGAGTCCCCCAAGATCCTGGAGCTCGGGGACGCCATC 316

Qy      214 AGCAGCAGCAGCCACGACGAGGCCCGCTCCTGAACGACAAGCACCTGGACGTGCCCGAC 273
      | | | | | | | | | | | | | | | | | | | |
Db      317 GCCGGGCTACGCTCGAGGAGGCCCGCAGCCTCGTCGACCACCTCCAGGAGCGGCTCGGC 376
  
```

```

Qy      274 ATCATCATCACGCCCCCCCCACCCCCACGGGCATGATGCTGCCGAGGGACTTGGGGAGCACA 333
      ||| | | | || | | | | | | | | | | | | | | | ||| ||
Db      377 GTCACCGCCGCGGCCTTCGCGCCGCGCCGCGTCGTCGCGGCGCCCGGGGCGGGCGCGCGGG 436

Qy      334 GTCTGGCTGGATGAG 348
      | | | | || |||
Db      437 GCCGCGGCCGAGGAG 451

```

## RESULT 10

US-12-156-531-13/c

; Sequence 13, Application US/12156531

; Publication No. US20090042297A1

; GENERAL INFORMATION

; APPLICANT: GEORGE, JR., Alfred L.

; APPLICANT: WILSON, Matthew H.

; TITLE OF INVENTION: PIGGYBAC TRANSPOSON-BASED VECTORS AND

; TITLE OF INVENTION: METHODS OF NUCLEIC ACID INTEGRATION

; FILE REFERENCE: 22000.0158U2

; CURRENT APPLICATION NUMBER: US/12/156,531

; CURRENT FILING DATE: 2008-06-09

; PRIOR APPLICATION NUMBER: 60/932,726

; PRIOR FILING DATE: 2007-06-01

; NUMBER OF SEQ ID NOS: 14

; SOFTWARE: FastSEQ for Windows Version 4.0

; SEQ ID NO 13

; LENGTH: 9314

; TYPE: DNA

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence; Note =

; OTHER INFORMATION: synthetic construct

US-12-156-531-13

```

Query Match          4.7%; Score 41.4; DB 4; Length 9314;
Best Local Similarity 58.5%; Pred. No. 0.64;
Matches 72; Conservative 0; Mismatches 51; Indels 0; Gaps 0;

```

```

Qy      11 CCCCCTGCTCTGTCTTGACAGGCTCGTCGCCGCGGCCCCCCGACGCCGACCGCCGCCGCC 70
      || ||| ||| | || | | ||| ||| ||| |||| ||| ||| |||
Db      4497 CCGCGCCCTCCCCGAGCCCTCCCCGGCCCGAGGCGGCCCGCCCGCCCGGACACCCC 4438

Qy      71 ACCACCACACGCGCCCGGGCGGGCCTCGCGCGCCTCGGGCGCGGCTCCGCAGTGAGCCCC 130
      ||| | | | ||| | | ||| ||| ||| || | ||| | |||||
Db      4437 ACCTGCCGCCACCCCCCGCCCGGCACGGCGAGCCCCGCGCCACGCCCCGTACGGAGCCCC 4378

Qy      131 CCA 133
      ||
Db      4377 GCA 4375

```

## RESULT 11

US-12-064-797A-8050

[http://es.ScoreAccessWeb/GetItem.action?AppId=105295...085922\\_us-10-529-592a-1.rnpbn&ItemType=4&startByte=0](http://es.ScoreAccessWeb/GetItem.action?AppId=105295...085922_us-10-529-592a-1.rnpbn&ItemType=4&startByte=0) (12 of 16) 5/25/2009 7:10:00 PM



```

; Publication No. US20090093620A1
; GENERAL INFORMATION:
; APPLICANT: Kovalic, David K.
; APPLICANT: Liu, Jingdong
; TITLE OF INVENTION: Annotated Plant Genes
; FILE REFERENCE: 38-21(15097)D
; CURRENT APPLICATION NUMBER: US/09/684,016
; CURRENT FILING DATE: 2000-10-10
; PRIOR APPLICATION NUMBER: US 09/654,617
; PRIOR FILING DATE: 2000-09-05
; NUMBER OF SEQ ID NOS: 463173
; SEQ ID NO 453428
; LENGTH: 471
; TYPE: DNA
; ORGANISM: Sorghum bicolor
US-09-684-016-453428

```

```

Query Match          4.6%; Score 40.6; DB 1; Length 471;
Best Local Similarity 57.5%; Pred. No. 0.95;
Matches 73; Conservative 0; Mismatches 54; Indels 0; Gaps 0;

```

```

Qy      17 TGCTCTGTCTTTGCAGGCTCGTCGCCCGGGCCCCCGAGCCCGACCGCCGCCACCACC 76
      | ||| | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      344 TCCTCCGCCGTCTCGGCGCGCCGCCGCGCCGCCAGCTCTAGCCGCGAGCGCTCCACC 285

Qy      77 ACCAGCGCCCGGGCGGGCCTCGCGCGCCTCGGGCGCGGCTCCGCAGTGAGCCCAACAAGA 136
      || || | | | | | | | | | | | | | | | | | | | | | |
Db      284 TCCGCTCCAGCTCCGCGTTCCTCCGCCGCAGGAGCTCCGCCTCATCATCCACTACAGCA 225

Qy      137 AGGAAGC 143
      || ||
Db      224 CCGACGC 218

```

## RESULT 14

```

US-10-425-115-98904/c
; Sequence 98904, Application US/10425115
; Publication No. US20090087878A9
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 98904
; LENGTH: 663
; TYPE: DNA
; ORGANISM: Zea mays

```

; FEATURE:  
 ; OTHER INFORMATION: Clone ID: MRT4577\_21713C.1  
 US-10-425-115-98904

Query Match 4.6%; Score 40.6; DB 2; Length 663;  
 Best Local Similarity 57.5%; Pred. No. 0.96;  
 Matches 73; Conservative 0; Mismatches 54; Indels 0; Gaps 0;

```

Qy      43  CGGCCCCCGAGCCCGACCGCCGCCACCAACCAGCGCCCGGGCGGGCCTCGCGCG 102
          || || || || || || || || || || || || || || || || || || ||
Db      564  CGCCGCCCGCGGCCGCCGCCGCTGCGCCTCCAGCGCGGAGAGGCCCGAGGCCCTC 505

Qy      103  CCTCGGGCGCGGCTCCGCACTGAGCCCAACAAGAAGGAGCGGCCTGCAGAGGTGCCGAC 162
          || || || || || || || || || || || || || || || || || || ||
Db      504  CGTGGCCCGCGGCCGCCGCCGAGCGCGGCCAGAACACGGACCCCGCGGCGTCGCCTTC 445

Qy      163  ATGGGGC 169
          || || ||
Db      444  CTCGCGC 438
  
```

## RESULT 15

US-11-974-469A-4265

; Sequence 4265, Application US/11974469A

; Publication No. US20090070898A1

## ; GENERAL INFORMATION

; APPLICANT: Allen, Edwards

; APPLICANT:Goldman, Barry S.

; APPLICANT:Guo, Liang

; APPLICANT:Heisel, Sara E.

; APPLICANT:Huang, Shihshieh

; APPLICANT:Ivashuta, Sergey I.

; APPLICANT:Kovalic, David K.

; APPLICANT:Krieger, Elysia K.

; APPLICANT:Roberts, James K.

; APPLICANT:Zhang, Yuanji I.

; TITLE OF INVENTION: Plant MicroRNAs and Methods of Use Thereof

; FILE REFERENCE: 38-21(54769)D

; CURRENT APPLICATION NUMBER: US/11/974,469A

; CURRENT FILING DATE: 2007-10-12

; PRIOR APPLICATION NUMBER: 60/851,187

; PRIOR FILING DATE: 2006-10-12

; PRIOR APPLICATION NUMBER: 60/908,826

; PRIOR FILING DATE: 2007-03-29

; PRIOR APPLICATION NUMBER: 60/969,195

; PRIOR FILING DATE: 2007-08-31

; NUMBER OF SEQ ID NOS: 8852

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 4265

; LENGTH: 373

; TYPE: RNA

; ORGANISM: Zea mays

US-11-974-469A-4265

Query Match 4.6%; Score 40.4; DB 3; Length 373;  
 Best Local Similarity 62.2%; Pred. No. 1.1;  
 Matches 61; Conservative 1; Mismatches 36; Indels 0; Gaps 0;

```

Qy      32 GCTCGTCGCCGCGGCCCCCGAGCCCGACCGCCGCCGCCACCACCACGCGCCCGGGCG 91
      || || | || | | || || | |||| |||| | || | || |||| | ||
Db      198 GCGCGGAGGCGGGUGGCGGGCGGGCGGACCGACGCCGACGCCGACGCCGCGCGCGGCC 257

Qy      92 GGCCTCGCGCGCCTCGGGCGCGGCTCCGCAGTGAGCCC 129
      ||| |||| | |||| || |||| :| || |
Db      258 GCGCGCGCGCCGCACGGGGAGAGCCCGCACUGCGCAC 295
  
```

Search completed: May 19, 2009, 21:14:43  
 Job time : 257 secs

SCORE 3.0